

*B1
concl*
code. implementing call routing to the forwarding number according to the basic service

*A1
cont.*
2. (Amended) A method for implementing call forwarding in a mobile system comprising at least a first exchange for carrying out call forwarding on the basis of subscriber data related to the call forwarding and at least one home location register connected to the first exchange for storing the subscriber data related to the call forwarding, the method comprising:

receiving at the first exchange a call set-up message addressed to a subscriber in the mobile system;

requesting routing information from the home location register;

transmitting a response message from the home location register to the first exchange, the message comprising data indicating the call forwarding, a forwarding number, and a basic service code indicating the basic service related to the call; and

implementing call routing to the forwarding number according to said basic service code.

3. (Amended) A method according to claim 2, wherein the basic service code is forwarded from the home location register to the first exchange via an extension added to the response message Send_Routing_Info_RES to the routing information request.

*Sub
B2*
4. (Amended) A method for implementing call forwarding in a mobile system comprising at least one exchange for carrying out call forwarding on the basis of subscriber data related to the call forwarding and at least one visitor location register for storing the subscriber data related to the call forwarding, the method comprising:

B2
cancel,
receiving at the exchange a call set-up message addressed to a subscriber in the mobile system;

A1
cancel,
providing a subscriber data request to the visitor location register connected to the exchange;

transmitting a response message from the visitor location register to the exchange, the message comprising data indicating the call forwarding, a forwarding number and a basic service code; and

implementing call routing to the forwarding number according to the basic service code.

5. (Amended) A home location register connected to a first exchange in a mobile system, wherein the home location register is arranged to transmit a basic service code to the first exchange in connection with a response message to a routing information request, the data indicating the basic service related to the call.

6. (Amended) A home location register according to claim 5, wherein the home location register is arranged to forward the basic service code to the first exchange by means of an extension added to the response message Send_Routing_Info_RES to the routing information request.

Sub
B3
7. (Amended) A first exchange in a mobile system, comprising means for transferring a call to a forwarding number, wherein the exchange is arranged to derive a basic service code from the call-set up message or from a response message transmitted by the home location register to the first exchange in response to a subscriber data request; and the exchange is arranged to route the call to the forwarding number according to the basic service code.

8. (Amended) An exchange according to claim 7, wherein the exchange is arranged to receive the basic service code in an extension added to the response message Send_Routing_Info_RES to the routing information request.

9. (Amended) An exchange according to claim 7, wherein said forwarding number is the number of a Voice Mail Service center having several lines, and that said exchange is arranged to transfer the call to the Voice Mail Service center via a line selected for the transfer according to the basic service code.

10. (Amended) An exchange according to claim 7, wherein the exchange is arranged to subject the forwarding number to a conversion selected according to the basic service code.

Sub 34 11. (Amended) An exchange in a mobile system, comprising means for transferring a call to a forwarding number, wherein the exchange is arranged to derive a basic service code from basic service data that indicates the basic service of the call and that is transmitted in connection with the call set-up message or a response message transmitted from the visitor location register to the exchange in response to a subscriber data request, and the exchange is arranged to perform routing to the forwarding number according to said basic service code.

12. (Amended) An exchange according to claim 11, wherein the exchange is arranged to derive the basic service code at least on the basis of the bearer capability information element contained in the basic service data.

13. (Amended) An exchange according to claim 11, wherein said forwarding number is the number of a Voice Mail Service center having several lines, and that said exchange is arranged to transfer the call to the Voice Mail Service center via a line selected for the transfer according to the basic service code.

14. (Amended) An exchange according to claim 11, wherein the exchange is arranged to subject the forwarding number to a conversion selected according to the basic service code.

See the attached Appendix for the changes made to effect the above claims.